

**MARK-UP OF AMENDED CLAIMS**

36. (Thrice Amended) An electrophysiology device, comprising:
- a) an elongated shaft having a proximal end, a distal end, and a distal shaft section with a proximal portion and a distal portion;
  - b) a plurality of electrodes on the proximal portion of the distal shaft section, having an interelectrode spacing of about 1 mm to not greater than 3 mm;
  - c) at least one temperature sensor on an exterior portion of the distal shaft section disposed between two adjacent electrodes and having a conductive metallic band disposed over and connected to the sensor and a jacket over the metallic band that is configured to insulate the temperature sensor from electrical interference from the adjacent electrodes; and
  - d) an elongated core member in the distal shaft section.
61. (Thrice Amended) An electrophysiology device, comprising:
- a) an elongated shaft having a proximal end, a distal end, a distal shaft section with a proximal portion and a distal portion and a wall portion defining at least in part an inner lumen extending within the distal shaft section;
  - b) an elongated core member disposed within the inner lumen;
  - c) a plurality of electrodes on the proximal portion of the distal shaft section, having an interelectrode spacing of about 1 mm to not greater than 3 mm;
  - d) a plurality of electrical ~~conductors~~ conductor which are at least partially embedded within a wall of the elongated shaft, and which have distal ends electrically connected to an electrode on the proximal shaft portion; and

e) at least one temperature sensor on an exterior portion of the distal shaft section which is disposed between two adjacent electrodes and having which has a conductive metallic band disposed over and connected to the sensor that is configured to tissue facilitate detecting temperature adjacent to the band connected to the temperature sensor.

63. (Thrice Amended) An electrophysiology device, comprising:

- a) an elongated shaft having a proximal end, a distal end, a distal shaft section with a proximal portion and a distal portion and a wall portion defining at least in part an inner lumen extending within the distal shaft section;
- b) a plurality of partially covered electrodes on the proximal portion of the distal shaft section;
- c) at least one temperature sensor on an exterior portion of the distal shaft section disposed between two adjacent electrodes and having a conductive metal band disposed over and connected to the at least one temperature sensor which is configured to facilitate detection of tissue temperature adjacent to the band connected tissue to the temperature sensor;
- d) at least one electrical conductor which has a distal end electrically connected to the at least one temperature sensor on the proximal shaft portion; and
- e) a core member disposed in the distal shaft section.